

Title (en)

Thermally predictable disk drive mechanism.

Title (de)

Thermisch voraussagbarer Plattenantriebsmechanismus.

Title (fr)

Mécanisme d'entraînement à disque à comportement thermique prévisible.

Publication

EP 0428290 A2 19910522 (EN)

Application

EP 90311843 A 19901029

Priority

US 43466189 A 19891113

Abstract (en)

A disk drive having a base (1) and a cover (12), enclosing the memory disks (3) and the magnetic head (8) actuator (5,6,7). The spindle (2) journaling the memory disks (3) and the support (4) for the actuator (5,6,7) are secured to the base (1) and to the cover (12). The materials of the base (1), the cover (12), the spindle (2) and the support (4), have thermal coefficients of expansion which are at least substantially the same. Preferably the materials are the same. Steel is a preferred material. The design also provides rigidity between the ends of the rotary mounting (2) of the memory disks and the support (4) for the magnetic head (8) actuator (5,6,7) while providing flexibility in the connections between the base (1) and cover (12), and thereby eliminating thermally induced slip at these connections. Slip between structural parts of a disk drive can prevent reliable writing and reading of data.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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